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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,836		07/10/2001	Domenico Valerio	3837.1US	8961
24247	7590	02/23/2005		EXAMINER	
TRASK BRITT P.O. BOX 2550				FALK, ANNE MARIE	
SALT LAKE CITY, UT 84110				ART UNIT	PAPER NUMBER
ŕ		•		1632	
			DATE MAILED: 02/23/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)				
	09/901,836	VALERIO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anne-Marie Falk, Ph.D.	1632				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 22 No	ovember 2004.					
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,4-15,21,22 and 24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	• •	•				
5) ☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,4,6-9,12-15,21,22 and 24</u> is/are rejected.						
7)⊠ Claim(s) <u>5,10 and 11</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊡ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>10 July 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s)	<u>-</u>					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)  Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P	atent Application (PTO-152)				
Paper No(s)/Mail Date	6)  Other:					

# DETAILED ACTION

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The amendment filed November 22, 2004 (hereinafter referred to as "the response") has been entered. Claims 1, 8, and 14 have been amended. Claims 3 and 23 have been cancelled.

Accordingly, Claims 1, 2, 4-15, 21, 22, and 24 remain pending in the instant application.

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 22, 2004 has been entered.

The rejection of Claims 1-15 and 21-24 under 35 U.S.C. 112, first paragraph, for containing new matter is withdrawn in view of the amendments to the claims and the arguments presented at pages 6-8 of the response.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or
- a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for the purposes of this subsection of an application filed in the

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United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4, 6-9, 12-15, 21, 22, and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 5,559,099 (Wickham et al., filed September 8, 1994).

Wickham et al. disclose, in Example 7, a recombinant adenovirus particle containing a chimeric penton base with an epitope recognized by a monoclonal antibody to be used in combination with a bispecific antibody that binds to  $\alpha_v$  integrins and the antibody-specific epitope on the chimeric penton base. The bispecific antibody targets the viral vector to cells expressing  $\alpha_v$  integrins. The reference further discloses that the viral vector can be targeted to HIV-infected cells by combining the vector particles with a bispecific antibody that recognizes the antibody-specific epitope in the chimeric penton base and the HIV gp120. The chimeric penton base protein is recombinantly expressed on the capsid of the adenovirus and constitutes the first member of the specific binding pair as recited in the instant claims. The portion of the antibody that recognizes  $\alpha_v$  integrins is the targeting moiety. The antibody-specific epitope present on the chimeric base protein has no specific affinity for the target molecule associated with the surface of the target cell (as recited in Claims 2 and 21). The subject matter of Claim 24 is disclosed because the example reveals that a different bispecific antibody can be used to target the same adenovirus vector to a different target cell type, i.e. the HIV-infected cells.

Thus, the claimed invention is disclosed in the prior art.

### Allowable Subject Matter

Claims 5, 10, and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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## Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne-Marie Falk whose telephone number is (571) 272-0728. The examiner can normally be reached Monday through Friday from 10:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, can be reached on (571) 272-0735. The central official fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Anne-Marie Falk, Ph.D.

Anne-Marie Jalk
ANNE-MARIE FALK, PH.D
PRIMARY EXAMINER